PCT application date: June 23, 2003

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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

- 1-19 (Canceled)
- 20. (New) A continuous process for preparing an organodialkylalkoxysilane of formula (IX):

$$R^{1}O$$
----- $(R^{2}R^{3})Si$ ---- $(CH_{2})_{3}$ -----A

Comprising the steps of:

a) continuously contacting an alcohol of formula (VIII): R¹-OH in countercurrent with a silane of formula (VII): Hal---(R²R³)Si-(CH₂)₃---A,

in order to carry out the alcoholysis reaction of said silane according to the following reaction:

the operation being carried out with stripping of the product of formula H-Hal formed, and

b) recovering the organodialkylalkoxysilane formed in the reactor, in which formulae

Docket Number: RN02079G1

Preliminary Amendment

PCT application date: June 23, 2003

the symbol Hal represents a halogen atom selected from chlorine, bromine and jodine

atoms, the chlorine atom being preferred;

the symbols R¹, which are identical or different, each represent a monovalent

hydrocarbon group selected from a linear or branched alkyl radical having 1 to 15

carbon atoms and a linear or branched alkoxyalkyl radical having 2 to 8 carbon atoms;

the symbols R² and R³, which are identical or different, each represent a monovalent

hydrocarbon group selected from a linear or branched alkyl radical having 1 to 6

carbon atoms and a phenyl radical; and

A represents a removable group selected alternatively from: a halogen atom Hal

belonging to chlorine, bromine and iodine atoms, or a radical para-R⁰-C₆H₄-SO₂-O-

wherein R⁰ is a linear or branched C1-C4 alkyl radical, or a radical R⁰-SO₂-O- wherein

R⁰ is as defined above, or a radical R⁰-CO-O- wherein R⁰ is as defined above.

21. (New) The process according to claim 1, wherein within the reactor a

descending liquid fluid comprising the silane of formula (VII) and an ascending

gaseous fluid comprising the alcohol of formula (VIII) will circulate in countercurrent.

22. (New) The process according to claim 20, wherein the alcoholysis reaction is

carried out within the reactor at a temperature between the boiling temperature of the

alkanol of formula (VIII) and the boiling temperature of the starting silane of formula

(VII), the reaction being carried out in the reactor alternatively at atmospheric pressure

or at reduced pressure or at superatmospheric pressure.

4

PCT application date: June 23, 2003

23. (New) The process according to claim 23, wherein the silane of formula (VII) is 3-chloropropyldimethylchlorosilane, Hal and A are chlorine and the alcohol of formula (VIII) is ethanol.

- 24. (New) The process according to claim 23, wherein the 3-chloropropyldimethylchlorosilane, is introduced in the upper part of the reactor, the ethanol in the lower part, the reaction temperature in the column is greater than 77.80°C and less than 178°C at atmospheric pressure and the hydrochloric acid formed is stripped by the ethanol.
- 25. (New) The process according to claim 20, wherein the reaction is carried out in the presence of an organic solvent or an inert gas, said solvent having a boiling temperature at the operating pressure which is between the boiling temperature of the ethanol of formula (VII) and that of the silane of the formula (VII).
- 26. (New) The process according to claim 25, wherein the solvent is toluene, monochlorobenzene or xylene and the products corresponding to formulae (I) to (XI) have ethyl groups R^1 and methyl groups R^2 and R^3 and R^3 and R^4 and Hal represent a chlorine atom.
- 27. (New) The process according to claim 20, wherein the pressure inside the reactor is less than atmospheric pressure, atmospheric pressure or greater than atmospheric pressure.
- 28. (New) The process according to claim 20, wherein the alcohol/silane molar ratio is greater than 1.

PCT application date: June 23, 2003

- 29. (New) The process according to claim 20, wherein the countercurrent reactor consists of a column equipped in its internal structure with a dumped or ordered packing or with plates.
- 30. (New) A process for preparing the product of formula (VII) used as a starting reactant in the continuous process as defined in claim 20, said process comprising the steps of:
- a) carrying out the following equation:

Hal—
$$Si-H$$
 + $CH_2=CH-CH_2-A$ — Hal— $Si-(CH_2)_3$ — A (V) (VII)

in which formulae:

the symbol Hal represents a halogen atom selected from chlorine, bromine and iodine atoms, and

the symbols A, R² and R³ are as defined above,

said reaction being carried out:

by reacting, at a temperature ranging from -10°C to 200°C, one mole of the diorganohalosilane of formula (V) with a molar amount being stoichiometric or different from the stoichiometry of the allyl derivative of formula (VI), in a homogeneous or heterogeneous medium in the presence of an initiator being: either of a catalytic activator consisting of: (i) at least one catalyst comprising at least one transition metal or one derivative of said metal, taken from the group consisting of

PCT application date: June 23, 2003

Co, Ru, Rh, Pd, Ir and Pt; and optionally (2i) at least one hydrosilylation reaction promoter,

or of a photochemical activator, and, optionally,

by isolating the diorganohalosilylpropyl derivative of formula (VII) that is formed.

31. (New) A process for preparing bis(monoorganoxysilylpropyl) polysulfides of formula:

$$R^{1}O-Si-(CH_{2})_{3}-S_{x}-(CH_{2})_{3}-Si-OR^{1}$$
 R^{3}
(I)

in which:

x is an integral or fractional number ranging from 1.5 ± 0.1 to 5 ± 0.1 ; and the symbols R^1 , R^2 , R^3 , Hal and A are as defined above in claim 20, by carrying out step (c), which proceeds according to the following equation:

PCT application date: June 23, 2003

$$2R^{1}O - \sum_{Si-(CH_{2})_{3}}^{R^{2}} - A + M_{2}S_{x}$$

$$(IX) \qquad (X)$$

$$R^{1}O - \sum_{Si-(CH_{2})_{3}}^{R^{2}} - S_{x} - (CH_{2})_{3} - \sum_{Si-(CR_{2})_{3}}^{R^{2}} + 2 M-A$$

$$R^{3} \qquad (I)$$

wherein:

the symbols R^1 , R^2 , R^3 , A and x are as defined above and the symbol M represents an alkali metal, the reaction being carried out:

- by reacting, at a temperature ranging from 20°C to 120°C, either the reaction mixture obtained at the end of step (b) as defined in claim 20, or the monoorganoxydiorganosilylpropyl derivative of formula (IX), taken in isolation after separation from said reaction mixture, with the metal polysulfide of formula (X) in the anhydrous state, using 0.5 ± 15 mol% of metal polysulfide of formula (X) per mole of the reactant of formula (IX) and optionally operating in the presence of an inert polar (or nonpolar) organic solvent, and
- by isolating the bis(monoorganoxysilylpropyl) polysulfide of formula (I) that is formed.

PCT application date: June 23, 2003

- 32. (New) The process according to claim 31, being carried out by linking together steps (a), (b) and (c), in the definition of which the removable group A corresponds to the symbol Hal representing a halogen atom is a chlorine atom, and step (b) corresponds to the continuous process as defined in claim 20.
- 33. (New) The process according to claim 32, wherein step (a) is carried out by operating in the presence of a catalytic activator which comprises, as the catalyst(s) (i), one and/or other of the following metal species: (i-1) at least one finely divided elemental transition metal; and/or (i-2) a colloid of at least one transition metal; and/or (i-3) an oxide of at least one transition metal; and/or (i-4) a salt derived from at least one transition metal and a mineral or carboxylic acid; and/or (i-5) a complex of at least one transition metal equipped with organic ligand(s) possessing one or more heteroatoms and/or organosilicon ligands; and/or (i-6) a salt as defined above in which the metal moiety is equipped with ligand(s) as also defined above; and/or (i-7) a metal species selected from elemental transition metal, oxide, salt, complex, complexed salt wherein the transition metal is combined with at least one other metal selected from the class of the elements of groups 1b, 2b, 3a, 3b, 4a, 4b, 5a, 5b, 6b, 7b and 8 with the exception of Co, Ru, Rh, Pd, Ir and Pt, of the Periodic Table, said other metal being taken in its elemental form or in a molecular form.
- 34. (New) The process according to claim 33, wherein step (a) is carried out by operating in the presence of a catalytic activator which comprises, as the catalyst (or catalysts) (i), one and/or other of the metal species (i-1) to (i-8) wherein the transition metal belongs to the subgroup formed by Ir and Pt.

PCT application date: June 23, 2003

35. (New) The process according to claim 34, wherein step (a) is carried out by operating in the presence of a catalytic activator which comprises, as the catalyst (or catalysts) (i), one and/or other of the metal species (i-1) to (i-8) where the transition metal is Ir.

36. (New) The process according to claim 35, wherein step (a) is carried out by operating in the presence of a catalytic activator which comprises, as the catalyst (or catalysts) (i), at least one metal species of type (i-5) belonging to the iridium complexes of formula:

$$[Ir(R^4)Hal]_2$$
 (XI)

wherein:

the symbol R⁴ represents a conjugated or nonconjugated, linear or cyclic (mono- or polycyclic) polyene ligand having 4 to 22 carbon atoms and from 2 to 4 ethylenic double bonds; and

the symbol Hal is as defined above.

37. (New) The process according to claim 31, wherein step (c) is carried out by deploying anhydrous metal polysulfides of formula (X) which are prepared beforehand from an alkali metal sulfide M₂S in the form of a hydrated sulfide, according to a procedure which consists in linking together the following operating phases (1) and (2):

phase (1), where the alkali metal sulfide hydrate is dehydrated by applying the appropriate method which makes it possible to remove the water of crystallization

Docket Number: RN02079G1

Preliminary Amendment

PCT application date: June 23, 2003

while retaining the alkali metal sulfide in the solid state throughout the dehydration

phase; and

phase (2), where subsequently one mole of dehydrated alkali metal sulfide obtained is

contacted with n(x-1) moles of elemental sulfur, the operating being carried out at a

temperature ranging from 20°C to 120°C, optionally under pressure and optionally

again in the presence of an anhydrous organic solvent, the aforementioned factor n

being situated within the range from 0.8 to 1.2 and the symbol x being as defined

above.

38. (New) The process according to claim 37, wherein the products corresponding

to formulae (I), (V), (VI), (VII), (VIII) and (IX) have ethyl groups R¹ and methyl

groups R² and R³ and A and Hal represent a chlorine atom.

11